

WHAT IS CLAIMED IS:

1 1. A connection structure in an electric junction box, comprising:
2 a first assembly, comprising:
3 a board member, for wiring an electric wire thereon; and
4 a first bus bar, electrically connected to the electric wire, and
5 including a first tab-shaped terminal having a first dimension in a first direction
6 and a second dimension smaller than the first dimension in a second direction
7 perpendicular to the first direction; and
8 a second assembly, joined to the first assembly in the first direction,
9 the second assembly comprising:
10 a mount section, in which an electric component is mounted; and
11 a second bus bar, electrically connected to the electric component,
12 and including a second tab-shaped terminal having a third dimension in the
13 first direction and a fourth dimension smaller than the third dimension in the
14 second direction, wherein:
15 the first terminal and the second terminal are arranged so as to be
16 overlapped in the second direction to be welded to each other, after the
17 second assembly is joined to the first assembly, and arranged such that a
18 relative position between the first terminal and the second terminal is gradually
19 changed in the first direction during the joining operation of the first assembly
20 and the second assembly.

1 2. The connecting structure as set forth in claim 1, wherein:
2 the first terminal is provided at a side end portion of the first assembly

3 in the second direction, and extending in a third direction orthogonal to the first
4 direction and the second direction; and

5 the second terminal is provided at a side end portion of the second
6 assembly in the second direction, and extending in the third direction.

1 3. The connecting structure as set forth in claim 2, wherein a top end of
2 the first terminal is situated upper than a top face of the first assembly.

1 4. The connecting structure as set forth in claim 1, wherein:
2 the second bus bar includes a joint portion continued from the second
3 terminal and extending in the second direction; and

4 the joint portion is fitted into the mount section in the first direction to
5 receive the electric component.

1 5. The connecting structure as set forth in claim 1, wherein:
2 the first bus bar includes a third terminal extending in the first
3 direction; and

4 the third terminal is placed in the mount section to receive the electric
5 component when the second assembly is joined to the first assembly.

1 6. The connecting structure as set forth in claim 1, further comprising a
2 positioning member for determining a relative position between the first
3 assembly and the second assembly.

1 7. A method of providing a connection structure in an electric junction
2 box, comprising steps of:
3 providing a first assembly, comprising:
4 a board member, for wiring an electric wire thereon; and
5 a first bus bar, electrically connected to the electric wire, and
6 including a first tab-shaped terminal having a first dimension in a first direction
7 and a second dimension smaller than the first dimension in a second direction
8 perpendicular to the first direction; and
9 providing a second assembly, comprising:
10 a mount section; in which an electric component is mounted; and
11 a second bus bar, electrically connected to the electric component,
12 and including a second tab-shaped terminal having a third dimension in the
13 first direction and a fourth dimension smaller than the third dimension in the
14 second direction;
15 joining the second assembly to the first assembly in the first direction
16 while a relative position between the first terminal and the second terminal is
17 gradually changed in the first direction; and
18 welding the first terminal and the second terminal which are
19 overlapped in the second direction, after the second assembly is joined to the
20 first assembly.

1 8. The method as set forth in claim 7, wherein:
2 the first bus bar includes a third terminal extending in the first
3 direction; and
4 the second bus bar includes a joint portion continued from the second

terminal and extending in the second direction, the method further comprising
steps of:
fitting the joint portion into the mount section in the first direction,
before the second assembly is joined to the first assembly; and
placing the third terminal in the mount section to receive the electric
component when the second assembly is joined to the first assembly.